Patent Claims

1. A connector for medical liquid-containing packages, in particular infusion or transfusion bags, with

a connection part (1), which has a channel-shaped recess (1c) in which a self-sealing membrane (8) is arranged, whereby the channel-shaped recess has a package-side lower opening and a connection-side upper opening (1b, 1a),

a break-off part (17), which closes the channel-shaped recess and is connected to the connection part above the connection-side opening;

characterised in that

the connection part (1) above the self-sealing membrane (8) is designed as a connection piece (13) with an internal cone (14), whereby the self-sealing membrane is slit so as to receive the conical shaft of a syringe in a sealing fashion.

2. The connector according to claim 1, characterised in that the connection piece of the connection part (1) is designed as a female Luer connector (13) with an internal cone (14).

3. The connector according to claim 2, characterised in that the Luer connector (13) of the connection part (1) is designed as a female Luer lock connector (13) with an internal cone (14) and an external thread (15).

4. The connector according to any one of claims 1 to 3, characterised in that the break-off part (17) is connected via an annular rupture zone (16) to the connection part.

5. The connector according to any one of claims 1 to 4, characterised in that the connection part (1) comprises a lower section (2) and an upper section (3), whereby the sections are fixed in a snap-in fashion.

6. The connector according to claim 5, characterised in that the self-sealing membrane (8) is held clamped between the lower and upper section (3, 4).

7. The connector according to any one of claims 1 to 6, characterised in that the self-sealing membrane (8) has a lower annular portion (9) and an upper plate-shaped portion (10), which has a mould-shaped recess (11).

8. The connector according to claim 7, characterised in that the upper plate-shaped portion (10) is followed by a middle intermediate piece (34), which transforms into the lower annular portion (9) of the self-sealing membrane (8).

9. The connector according to claim 7 or 8, characterised in that the annular portion (9) of the self-sealing membrane (8) is clamped between the lower and upper section (2, 3) of the connection part (1).

10. The connector according to any one of claims 7 to 9, characterised in that the connection part (1) has a shoulder (35) projecting inwards, on which the annular portion (9) of the self-sealing membrane (8) rests.

11. The connector according to any one of claims 7 to 10, characterised in that the connection part (1) has a shoulder (36) projecting inwards, on which the plate-shaped portion (10) of the self-sealing membrane (8) rests.

12. The connector according to claim 11, characterised in that the plate-shaped portion (10) of the self-sealing membrane (8) is prestressed in a spring-like manner against the shoulder (36) projecting inwards.

13. The connector according to any one of claims 7 to 9, characterised in that the annular portion (9) of the self-sealing membrane (8) is connected in a keyed manner to the lower section (2) of the connection part.

14. The connector according to any one of claims 7 to 13, characterised in that the inner diameter of the annular portion (9) of the self-sealing membrane (8) is smaller than the inner diameter of the channel-shaped recess (1c) of the connection part (1).

15. The connector according to any one of claims 1 to 14, characterised in that the internal cone (14) of the connection piece (13) and the self-sealing membrane (8) of the connection part (1) are designed and arranged in such a way that the conical shaft of a syringe inserted into the internal cone (14) opens the slit membrane, but does not penetrate it.

16. The connector according to any one of claims 1 to 15, characterised in that the break-off part (17) is designed as a flat grip.

17. A package for medical liquids, in particular infusion or transfusion bags, with a connector (20) according to any one of claims 1 to 16.